

S/133/60/000/003/017/017/XX
A054/A029

AUTHORS: Dolgalev, V. A., Astaf'yev, F. S., Tyukalov, P. A., Mustyukov, I. S.,
Engineers

TITLE: Automatic Control of the Surface Purity of Steel Strips

PERIODICAL: Stal', 1960, No. 8, pp. 734-735

TEXT: At the MMK steel strips are cleaned in a machine designed by the
NIIKhIMMASH, operating with an alkaline electrolyte at a maximum speed of 5 m/sec.
The equipment, however, only removes grease from the strip surface and not any
impurities caused by carbon, iron and iron oxides; moreover, a close check on the
strip surface cleaned with this machine is only possible with laboratory instru-
ments, while control during production is rather primitive (with paper or cotton)
and is not sufficiently accurate, as the strip cannot be controlled along its
entire surface, nor is it possible to make up for inadequate degreasing. Due to
these shortcomings, about 100-150 tons of steel strips per month could not be
tinned in this plant. Incomplete cleaning of the strip surface became of special
importance when manual sorting was replaced by automatic sorting, as the latter
only signals perforations in the strips and deviations in their thickness, but

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Automatic Control of the Surface Purity of Steel Strips

does not reject strips with impurities. In order to eliminate these drawbacks an apparatus for the continuous and automatic control of the strip surface (a so-called "surface-indicator") was designed in the NIIKhIMMASH. This apparatus consists of four transmitters and schemes for selecting the maximum signal for impurities. The schemes and the transmitters form one unit. The essential part of the apparatus is a measuring device, defining the quantity of light reflected from the controlled surface with the aid of a photoresistor. The rays of light emitted by the electric lamps pass through a light filter and are reflected from the strip surface. Next they strike the photoresistor which is connected to the arm of the measuring bridge. When the rays are reflected from a part of the surface covered with impurities, the amount of light falling on the photoresistor decreases, thus increasing the ohmic resistance. The entire width of the strip is controlled by this apparatus which is mounted before the coiling machine. As the strip surface passing under the transmitters is not covered uniformly with impurities, a logistic scheme ($MH = LI$) is applied in determining the maximum amount of impurities on any part of the strip surface (Fig. 4). When applying four positive potentials (U_1, U_2, U_3, U_4) of different values at the four outputs ($a, \bar{6}, \bar{8}, \bar{2} = a, b, v, g$) the voltage at the output U_{out} [Abstracter's note: subscript out is

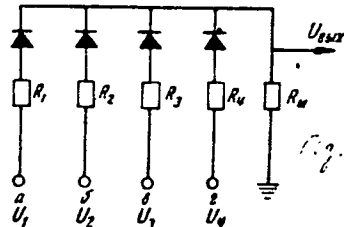
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Automatic Control of the Surface Purity of Steel Strips

the translation of the original BUX (BUXOD) is practically equal to the maximum signal obtained. The indicator is a micro-ammeter with 100 scale divisions. The indications of the micro-ammeter are converted graphically into quantities of impurities on the strip up to 100 mg/m^2 ; beyond this value the accuracy of measurements is no longer reliable. It was found that the indications of the micro-ammeter were in direct proportion with the amount of impurities (e. g., $50 \text{ } \mu\text{a}$ on the ammeter corresponds to 50 mg/m^2 impurities). The device is easy to operate and detects defects and irregularities in the degreasing process and other phases of production immediately (for instance the presence of soda stains on the strip shows that the bath has not the correct concentration of alkali, etc.). The sensitivity of the device is sufficient to indicate even such small amounts of impurities as 2 mg/m^2 . There are 4 figures.

ASSOCIATION: NIIKhIMMASH and Magnitogorskiy kombinat
(Magnitogorsk Combine)



Circuit for transmitting
signal of maximum strip pollution

Card 3/3

MUSULIN, I., ing.

Bleaching of wool. Ind text Rum 14 no.3:115-116 '63.

MUSULIN, Sveta, inz.

Federal community plan of electric industries for 1962.
Elektroprivreda 15 no.1:37-38 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Sveta, inz.

Problem of investments in electric industries. Elektroprivreda
15 no.1:42-43 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Sveta, inz.

Automation of railroad transportation. Elektroprivreda
15 no.1:43-44 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Sveta, inz.

Electroindustrial enterprises "Varnost" of Zagorje, Slovenia.
Elektroprivreda 15 no.1:50 Ja '62.

1. Clan Redakcionoga odbora, "Elektroprivreda."

MUSULUN, Sveta, inz.

The welding apparatus with transversal field AS1. Elektroprivreda
15 no.1:51 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Sveta, inz.

The portable, continuous-current apparatus APl. Elektroprivreda
15 no.1:51 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Sveta, inz.

TARA, a transistor receiver. Elektroprivreda 15 no.1:52 Ja '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Production of electric industries in 1961. Elektroprivreda
15 no.2/3:117-120 F-Mr '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Price diagram of electric industries in 1961. Elektroprivreda
15 no.2/3:122-123 F-Mr '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Yugoslav standards for the branches of electrical engineering and electric industries. Fulfillment of the Plan for 1961. Plan for 1962. Elektroprivreda 15 no.2/3:133-135 F-Mr '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Autopneumatic switches. Elektroprivreda 15 no.4:193-194 Ap '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Production of the elements and equipment for automation.
Elektroprivreda 15 no.5:259 My '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

New capital investments of the enterprise "Rade Koncar"
of Zagreb. Elektroprivreda 15 no.5:261 My '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

The development plan of the enterprise "Elektrosrbija" up to 1965. Elektroprivreda 15 no.5:261 My '62.

1. Clan Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetožar, inž.

The transmission-line pole of the type "Elektrosrbija."
Elektroprivreda 15 no.5:262 My '62.

1. Član Redakcionog odbora, "Elektroprivreda."

MUSULIN, Svetozar, inz.

Electric industries and railroad electrification. Elektroprivreda 16 no.6/7:328-331 Je-Jl'63.

1. Clan Redakcionog odbora, "Elektroprivreda".

MUSULYAK, N. M.

Cand. Med. Sci.

Dissertation: "Investigation of Certain Functions of a Liver in the Case of
Ulcer Disease."

27/11/50

First Moscow Order of Lenin Medical Inst.

89 Vecheryaya Moskva
Sum 71

MUSULYAK, N.M.;SHELAGUROV, A.A.

Use of graded spectrophotometry for bilirubin liver
function test. Ter. arkh. 22 no.5:50-52 Sept-Oct 1950.
(CIML 20:1)

1. Of the Propedeutic Therapeutic Clinic (Director -- Prof.
V. Kh. Vasilenko, Corresponding Member of the Academy of
Medical Sciences USSR), First Moscow Order of Lenin Medical
Institute.

MUSULYAK, N.M., kandidat meditsinskikh nauk; KORZHUKOVA, P.I. (Moskva)

Case of acute primary xanthomatosis. Klin.med. 34 no.4:59-61 Ap '56.
(MIRA 10:1)

1. Iz kafedry propedvtiki i diagnostiki vnutrennikh bolezney
(dir. - chlen-korrespondent AMN SSSR prof. V.Kh.Vasilenko) i
Moskovskogo ordena Lenina meditsinskogo instituta.

(LIPOIDOSIS,

xanthomatosis, primary generalized (Rus))

MUSULYAK, N.M., kand.med.nauk; ADEL'SHINOVA, S.A. (Moskva)

Biliary peritonitis [with summary in English]. Klin.med. 37 no.2:
112-116 P '59. (MIRA 12:3)

1. Iz propedevicheskoy terapevticheskoy kliniki (sav. - deyatel'nyy
chlen AMN SSSR prof. V.M. Vasilenko) i Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova i 42-y gorodskoy bol'nitsy
Moskvy (glavnyy vrach G.A. Korenevskiy).
(PERITONITIS,
biliary (Rus))

MUSULYAK, N.H., kand.med.nauk (Moskva)

Diagnosis and pathogenesis of dissecting aortic aneurysm. Klin.
med. 37 no.7:110-118 J1 '59. (MIRA 12:10)

1. Iz kliniki propedevtiki vnutrennikh bolezney (zav. kafedroy -
deystvitel'nyy chlen AMN SSSR prof.V.Kh.Vasilenko) I Moskovskogo
ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(AORTIC ANEURYSM)

MUSVIK, BORIS KARLOVICH

BATALOV, Nikolay Mikhaylovich; YUR'YEV, Mikhail Grigor'yevich; ~~MUSVIK, Boris Karlovich~~; DVORYANKIN, Mikhail Petrovich; GORNOV, Mikhail Maksimovich; NIKIFOROVA, Anna Ivanovna; VINOGRADOV, N.V., redaktor; LARIONOV, G.Ye., tekhnicheskij redaktor

[Fifth five-year plan in progress; activity of the Kirov "Dinamo" plant in Moscow] Piataia piatiletka v deistvii; opyt raboty Moskovskogo zavoda "Dinamo" imeni S.M.Kirova. Moskva, Gos. energ. izd-vo, 1954. 102 p. [Microfilm] (MLRA 8:2)
(Moscow--Electric industries)

OBNOVLENSKIY, P.A.; MUSYAKOV, L.A.

Impulse photometer. Stan. 1 instr. 26 no. 5:22-24 My '55.
(Counting devices) (MIRA 8:8)

121-7-7/26

AUTHOR:

OBNOVLENSKIY, P.A., MUSYAKOV, L.A., SHTEYNTSAYG, M.A.

TITLE:

A Photoelectron Device for the Investigation of Small Grooves and Cavities. (Fotoelektronnoye ustroystvo dlya kontrolya glubiny malykh pazov i polostey, Russian)

PERIODICAL:

Stanki i Instrument, 1957, Vol 28, Nr 7, pp 19-21 (U.S.S.R.)

ABSTRACT:

The double microscope of V.P.LINNIK, member of the Academy, is known to be used for the investigation of surface quality as well as for measuring unevennesses of the surface from 1 to 60 μ and more. It can also be used for the investigation of grooves and cavities of a depth of up to 0.05-0.06 mm, in which case the groove must be sufficiently long, so that the beams can be reflected from the groove bottom under an angle of 45°. The use of a photoelement makes it possible to carry out measurements objectively and more rapidly. Besides, such a photoelectric device may be used for the automatic testing of various products. For the automatic determination of the amount of shift of the aperture image it is necessary, instead of the angle bisector of the microscope ocular, to use the edge of the untransparent roller blind and a photoelement. In the case of the shifting of the aperture image with respect to the edge of the roller blind, the intensity of the light current upon the

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121-7-7/26

A Photoelectron Device for the Investigation of Small Grooves and Cavities.

photoelement changes. In order to restore its original value, the roller blind must be shifted to the same extent as the aperture image. It is thus possible, from this shifting, to draw conclusions as to the deviations of the reflecting surface, which are proportional to one another. The derivation values of a reflecting surface can be evaluated on the basis of the change of light current intensity impinging upon the photoelement; this method is, however, characterized by a number of sources of errors which are detrimental to its accuracy. With the aid of 3 illustrations the construction and the operation of such devices is then described and explained in detail. On such automatically working devices it is possible to test and to sort out workpieces with an accuracy of up to 3μ .

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

OBNOVLENSKIY, Petr Avenirovich; MUSTYAKOV, Leonid Abramovich; SHTEYNTSAYG, Matvey Abramovich; KHOTILIN, Aleksandr Iosifovich; PAPAHOV, Nikolay Fedorovich; TUCHKOVA, L.K., inzh., ved. red.; SOROKINA, T.M., tekhn. red.

[Automatic control of a double microscope. Automatic device for checking rollers] Avtomatizatsiia dvoynogo mikroskopa. Avtomat dlia kontrolya valikov. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 13 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 21. No.M-58-140/5) (MIRA 16:3)
(Microscope) (Electronic instruments)

25(5)

PHASE I BOOK EXPLOITATION

SOV/2100

Musyakov, Leonid Abramovich, Girsh Solomonovich Vil'ner, and Anatoliy Vasil'yevich Yastrebov

Avtomatizatsiya kak sredstvo ozdorovleniya usloviy truda (Improved Working Conditions Through Automation) [Moscow] Profizdat, 1958.
71 p. 5,000 copies printed.

Ed.: I.S. Denisova; Tech. Ed.: A.A. Golichenkova.

PURPOSE: This booklet is intended for personnel responsible for safety engineering.

COVERAGE: The booklet describes simple mechanization and automatization methods, that if used by individual plants may significantly reduce working hazards in casting, cutting, and forming metals and processing chemicals. Examples showing instrumentation of machine tools and other equipment with various feeders, loaders, and other safety devices are included. No personalities are mentioned.

Card 1/2

MUSYAKOV, L., kand.tekhn.nauk; BARTENEV, V., kand.med.nauk

Important problems of storage batteries manufacture. Okhr.
truda i sots.strakh. no.7:20-23 J1 '59. (MIRA 12:11)
(Storage batteries)

BOBROV, G.I.; MUSYAKOV, L.A.

Estimating the quality of deep-sea thermometers. Meteor. i
gidrol. no.3:53-55 Mr '62. (MIRA 15:3)
(Thermometers--Testing) (Deep-sea temperature)

AL'TMAN, G.Z., inzh.; MUSYAKOV, L.A., inzh.; OBNOVLENSKIY, P.A., inzh.

Automatic control of the tension of materials during their processing.

Mekh.i avtom. proizv. 17 no.2:36-39 F '63.

(MIRA 16:2)

(Automatic control)

MUSYAKOV, L.A.

Means of mechanizing the processing of calibrated data in
calibrating current meters. Trudy GOIN no.74:107-117 '63.
(MIRA 16:7)
(Calibration) (Oceanographic instruments)

MUSYAKOV, L.A.

Pressure coefficient of a thermometer-bathometer. Trudy GOIN
no.82:12-15 '64 (MIRA 18:2)

Influence of the moment of frictional forces of the rotating
part of a current meter on its initial speed. Ibid.:16-18

L 38925-66 EWT(1) GW

ACC NR: AT6016356

(N)

SOURCE CODE: UR/2634/65/000/087/0166/0173

AUTHOR: Musyakov, L. A.

ORG: none

TITLE: Checking automatic potentiometers

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 87, 1965.
L'dy i termika morey (Ice and thermal conditions of seas), 166-173

TOPIC TAGS: potentiometer, oceanographic instrument, measuring instrument

ABSTRACT: In this article the author substantiates the need for a daily observation of the working order of automatic potentiometers as oceanographic measuring instruments and the importance of a regular check of the potentiometers. The basic operations of checking potentiometers, i.e., determination of the error and variation of the readings and the threshold of sensitivity, are examined. The readings of the instrument and its sensitivity must be checked under the following conditions: 1) The temperature of the room where the check is being made should be within $20 \pm 5^\circ\text{C}$; 2) the supply voltage should not deviate from the rated voltage by more than $\pm 3\%$; 3) the frequency of the supply voltage (50 cycles) should not deviate by more than ± 0.5 cycles; 4) there should be no external magnetic fields (except the

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UDC: 551.46.08

L 38925-66

ACC NR: AT6016356

earth's); and 5) preliminary warm-up of the potentiometer should not last more than 2 hr. The ultimate purpose of these operations is to elicit the measuring properties of the potentiometer. Although the education of the personnel operating the instruments is a factor to be taken into account, the decisive role in the proper operation of potentiometers belongs to the inspection organizations for hydrometeorological instruments. Potentiometers operating aboard ships should undergo a rigorous inspection. Orig. art. has: 3 figures.

SUB CODE: 08,09 / SUBM DATE: None / ORIG REF: 006

Card $\frac{7}{2}$ H

30257

S/145/60/000/009/010/017
D221/D304

26.2190
AUTHORS:

Bobrovnikov, G.N., and Mus'yakov, M.P., Candidates
of Technical Sciences

TITLE:

The effect of initial pressure on static characteristics of electro-hydraulic drive

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroyeniye, no. 9, 1960, 95 - 103

TEXT: The electro-hydraulic drive is a power amplifier without feedback. However, the relationship between the input of servomechanism and the load forms an equivalence to a negative feedback. The unit (Fig. 1) consists of a two-chamber gear pump 1, electric motor 2, control by a polarized relay 3, and valve and working member - servomotor 4. The piston of the latter is actuated by the difference in pressure determined by the position of valve spools 10 and 11, controlled by relay tie rod 15 and the rocker. The proportionality between the input signals of the polarized relay and the position of its armature is ensured by spring 20. When no control signal is present, opposite currents flow in the coils of the

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The effect of initial pressure ...

relay, and the armature will occupy a middle position, with spools opening equal orifices, and thus no drop of pressure is produced. The author quotes analytical work for calculating the static characteristics of the drive, where he ties the displacement of spool h , with the speed of its travel. The torque is given by

$$M = 4 p_0 F (1 + \alpha)^2 R_c \cdot \frac{h}{(1 + \alpha - h^2)^2} \quad (3)$$

where R_c is the radius of the crank, F is the piston area, and α is a parameter which takes into consideration the load effect on pump delivery. In the case of small displacements h , the torque characteristic is linear, whereas in the working range this is achieved by an increase of the initial pressure, p_0 or the cross section of piston F . The latter arrangement reduces the speed of power of piston. The static speed characteristic is then considered. Its slope is proportional to the output of pump and inversely proportional to the cross section of the piston. An equation is deduced for spool displacement at the start of motion h_s , in rela-

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D221/D304

The effect of initial pressure ...

tion to the initial and starting pressures. In order to determine the effect of the initial pressure, experiments were carried out whose results are plotted. These allow the following conclusions to be made. The speed of the output shaft ω as a function of the signal current is independent of the initial pressure. The maximum speed corresponds to full closure of valve orifice connected with working chamber of cylinder, and completely open exhaust. The starting current decreases with the rise of p_0 . The speed of return stroke drops when initial pressure goes up. The slope of speed characteristic is constant for all load torques. The increase of p_0 causes a straightening of the torque characteristic, whose slope is maximum at $p_0 = 0$. This curve exhibits saturation for certain values of signal current. There are 8 figures.

ASSOCIATION: MVTU im. N.E. Bauman (MVTU im. N.E. Bauman)

SUBMITTED: May 17, 1960

Card 3/4

MUS'YAKOV, P., general-mayor zapasa

The naval infantry. Voen. znan. 41 no.2:8-9 F '65.

(MIPA 18:3

MUS'YAKOV, P.I., general-mayor Zapara

Flag officer K.I.Dushenov. Mor. spor. 46 no.10:76-80 0 '53.
(MIRA 12:14)

AMMOSOV, I.I.; MUSTAL, S.A.

Reflecting power as one of the main properties of fossil coals. Doklady
Akad. Nauk S.S.S.R. 84, 1223-6 '52. (MLRA 5:7)
(CA 47 no.21:11694 '53)

MUSYAL, S.A.

✓ 3130. COMPARISON OF TYPICAL KUZBAS (KUZNETSK BASIN) AND DONETS (DONETS BASIN) COALS. Armosov, I.I. and Musyol, S.A. (Izud. inst. gor. iskop. (Trans. Inst. combust., Miner., Acad. Sci. U.S.S.R.), 1955, vol. 6, 112-145; abstr. in Chem. Abstr., 1956, vol. 50, 16072). Coals of the Donets basin and the Erusal formation in the Kuznetsk Basin are petrographically similar, but the Kuznetsk Bolokhon formation is distinctly different, containing 20-25% less of the vitrain group components and 25-28% more of the fusain components than the Donets coal. One of the principal reasons for the difference is attributed to dissimilarities of metamorphism processes and the resulting difference in the vitrain and fusain components. C.A.

SOV/24-58-11-37/42

AUTHORS: Ammosov, I. I. and Musyal, S. A. (Moscow)

TITLE: Variation of the Micro-hardness of Coals Depending on Their Origin (Izmeneniye mikrotverdosti ugley v zavisimosti ot ikh proiskhozhdeniya)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 11, pp 136-138 (USSR)

ABSTRACT: The authors describe the results of detailed investigations of the changes in the micro-hardness of the petrographic components of a wide range of coals of various Soviet origins. Measurement of the micro-hardness was effected by means of the PMT-5 instrument with an indenter load of 10 g. The experiments were carried out in reflected light with specimens taken from the middle of the seams and produced from coal which was fragmented to 1.5 mm grains. There are 2 figures and 5 references, 4 of which are Soviet, 1 German.

ASSOCIATION: Institut goryuchikh iskopayemykh AN SSSR (Institute of Mineral Fuels, Ac.Sc. USSR)

SUBMITTED: April 8, 1958

Card1/1

MUSYAL, S. A., Cand of Tech Sci -- (diss) "Micronhardness of Mined Coal," Moscow, 1959,
20 pp (Institute of Geology and Processing of Mineral Fuels, Academy of Sciences
USSR) (KL, 8-60, 117)

MUSYAL, S.A.

Microhardness of coals. Trudy IGI 8:31-44 '59.

(MIRA 13:1)

(Coal)

MUSTAL, S.A.

Changes in the microhardness of vitrinite during coal oxidation.
Trudy IGI 14:81-86 '60. (MIRA 13:12)
(Vitrinite) (Coal geology)

MUSYAL, S.A.

Microhardness of coal in relation to its classification. Trudy IGI
12:53-59 '61. (MIRA 14:3)
(Coal--Classification) (Hardness)

AMMOISOV, I.I.; YEREMIN, I.V.; BABINKOVA, N.I.; GRECHISHNIKOV, N.P.;
PRYANISHNIKOV, V.K.; MUSYAL, S.A.; AMMOISOVA, Ya.M.;
BCRODAVKIN, M.G., red. izd-va; YEPIFANOVA, L.V., tekhn.red.

[Petrographic characteristics and properties of coals] Petro-
graficheskie osobennosti i svoistva uglei. Moskva, Izd-vo
Akad. nauk SSSR, 1963. 379 p. (MIRA 16:1)
(Coal)

MUSYALIK, Ye.T.

Use of exercise therapy in peacetime craniocerebral wounds.

Vop.kur. fizioter. i lech. fiz. kul't. 23 no.6:535-539 H-D '58

(MIRA 11:12)

1. Iz 4-y Moskovskoy gorodskoy klinicheskoy bol'nitsy nauchnyy
rukovoditel' - prof. V.A. Ivanov).

(HYPERTENSION)

(HEAD--WOUNDS AND INJURIES)

(EXERCISE THERAPY)

L 532 1-45

UR/0300/64/036/006/0829/0834

ACCESSION NR: AP5017358

AUTHOR: Goncharova, K. O. (Goncharova, Ye. Ye.); Musyalkovskaya, A. A. 14
(Musyalkovskaya, A. A.) B

TITLE: Effect of iprazid on the content of glycogen in the cerebrum of animals

SOURCE: Ukrayins'kyi biokhimichnyy zhurnal, v. 36, no. 6, 1964, 829-834

TOPIC TAGS: experiment animal, brain, animal physiology, biochemistry

Abstract: Rabbits and cats were used in experiments carried out to determine the effect of iprazid on the content of glycogen and glucose in the cerebral tissues of the animals. The Kerr and Nelson methods were used to determine the glycogen content in the brain prior to the experiments. Iprazid was then subcutaneously administered in doses of 100 milligrams per kilogram body weight. Within 17-18 hours after the administration of the iprazid the animals were sacrificed, their brains excised and examined. It was found that the glycogen content in the brain of the rabbits increased considerably (twofold and threefold) following the administration of iprazid; there was also a considerable increase in the content of glucose; only a slight increase of the glycogen and glucose in the cerebrum of the cats was noted. Orig. art. has 4 tables.

Card 1/2

L 53925-65

ACCESSION NR: AP5017358

ASSOCIATION: Instytut biokhimiyi Akademiyi nauk Ukrayins'koyi RSR, Kiev
(Institute of Biochemistry, Academy of Sciences Ukrainian SSR)

SUBMITTED: 24Jun64

ENCL: CO

SUB CODE: LS

NO REF SOV: 002

OTHER: 010

JPRS

Card 2/2

MISYANOVICH, A.M., pensioner (s.Pogorelets, Rozhnyatovskogo rayona,
Stanislavskoy obl.)

Automatic rodent trap. Zashch. rast. ot vred. i bol. 5 no.9:
41-42 S '60. (MIRA 15:6)
(Rodent control)

MUSYASHCHIKOVA, S. S.

6754 MUSYASHCHIKOVA, S. S. -- Disappearance of autonomic reflexes when not reinforced. Invest. Akad. Nauk. U.S.S.R. (biol.) 1950, I (107-113) Graphs 4 Tables 1

The action of stimuli on the sense organs gives rise not only to perceptions but also to various autonomic reactions (vascular reactions, sweating, etc.). Upon repetition of the stimuli the perceptions remain but the autonomic reactions disappear. This disappearance of autonomic reflexes is compared with the disappearance of conditioned reflexes when they are not followed by unconditional stimuli (e.g. feeding).

Ten Cate - Amsterdam

S0: Excerpta Medica, Section II, Vol. 4, No. 12

60. MUSYASHCHIKOVA, S. S.

Section 9

Course of extinction of vegetative reactions in response to stimulation of different analyzers. S. S. Musyashchikova (*J. Physiol., USSR* 1981, **67**, 718-728).—The skin-galvanic reflex was recorded in dogs, rabbits, and frogs in response to auditory, tactile, and visual stimuli, and also to inhalation of irritant vapours and distension of the stomach, intestine, and urinary bladder. On repetition of the stimulus extinction of the reflex takes place but the rate of extinction varies with the type of stimulation, being very much faster with exteroceptive stimulation and slower with interoceptive stimulation. When a motor reaction accompanies stimulation the extinction of this occurs later than that of the skin galvanic reflex.

D. H. SWYER

Electrophysiol. Lab, Inst. Brain in V.M. Bekhterev

MUSYASHCHIKOVA, S.S.; BRONSHTEYN, A.I., zaveduyushchiy; CHERNIGOVSKIY, V.N., deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR; BYKOV, K.M., akademik, direktor.

Extinction of vegetative reactions during stimulation of peripheral apparatus of various analyzers. Von.fiziol.int. no.1:411-428 '52. (MLRA 6:8)

1. Elektrofiziologicheskaya laboratoriya Instituta mozga im. Bekhtereva (for Bronshteyn). 2. Laboratoriya fiziologii retseptorov Instituta fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Chernigovskiy). 3. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR (for Bykov). 4. Akademiya meditsinskikh nauk (for Chernigovskiy). (Nervous system)

MUSYASHCHIKOVA, S.S.

Analysis of the effects disturbances of the central nervous system upon interoceptive reflexes. Mechanism of changes of the interoceptive reflexes following decerebration. Biul. eksp. biol. i med. 37 no.1:13-18 Ja '54. (MLRA 7:3)

1. Iz laboratorii fiziologii retseptorov (zaveduyushchiy - professor V.N.Chernigovskiy) Instituta fiziologii im. I.P. Pavlova Akademii nauk SSSR (direktor - akademik K.M.Bykov), Leningrad. (Brain) (Reflexes)

MUSYASHCHIKOVA, S.S.

Potentials of the limbic cortex of the brain in cats affected
by the stimulation of the receptors of the internal organs.
Dokl. AN SSSR 157 no.5:1257-1260 Ag '64. (MIRA 17:9)

1. Institut fiziologii im I.P. Pavlova AN SSSR. Predstavleno
akademikom V.N. Chernigovskim.

MUSYASHCHIKOVA, S.S.

Reflexes from the mechanoreceptors of the stomach before and after unilateral excision of the cerebral cortex [with summary in English]
Biul. eksp. biol. i med. 43 no.2:18-22 F '57 (MLRA 10:5)

1. Iz laboratorii fiziologii retseptorov (zaveduyushchiy-deystvitel'nyy chlen AMN SSSR professor V.N. Chernigovskiy) i laboratorii patologicheskoy fiziologii (zaveduyushchiy-professor V.S. Galkin) Instituta fiziologii imeni I.P. Pavlova (direktor-akademik K.M. Bykov) AN SSSR, Leningrad. Predstavlena deystvitel'nyy chlenom AMN SSSR V.N. Chernigovskim.

(STOMACH, physiology,

eff. of irritation on cutaneous galvanic reflex, eff.
of unilateral cerebral cortex excis.) (Rus)

(CEREBRALCORTX, physiology,

eff. of unilateral excis. on cutaneous galvanic response to
stomach irritation) (Rus)

(REFLEX, PSYCHOGALVANIC,

eff. of cerebral cortex unilateral excis. on cutaneous
galvanic response to stomach irritation) (Rus)

GANELINA, I.Ye.; ZIMOVAYA, N.G.; IL'INSKIY, O.B.; LEBEDEVA, V.A.;
MARTINYUK, V.K.; MEKKULOVA, O.S.; MUSYASHCHIKOVA, S.S.;
MYAGKAYA, I.P.; OSADCHIY, L.I.; POPOVA, T.V.; SEREBRENNIKOV, I.S.;
TYUTRYUMOVA, Z.I.; CHERNICHENKO, V.A.; YAROSHEVSKIY, A.Ya.

Interceptive component in the development of certain pathological
states. Trudy Inst.fiziol. 8:240-253 '59. (MIRA 13:5)

1. Laboratoriya patologicheskoy fiziologii (zaveduyushchiy - V.S.
Galkin [deceased]) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(SENSES AND SENSATION) (PATHOLOGY)

GILINSKIY, Ye.Ya.; MUSYASHCHIKOVA, S.S.

Changes in the peripheral blood, the nerve structure of some internal organs, and interoceptive reflexes from the stomach following general and local X-ray exposure. Trudy Inst. fiziol. 9:199-212 '60. (MIRA 14:3)

1. Laboratoriya fiziologii krovoobrashcheniya i dykhaniya (save-
duyushchiy G.P.Kongradi) Instituta fiziologii im. I.P.Pavlova.
(BLOOD) (DIGESTIVE ORGANS—INNERVATION)
(REFLEXES) (X RAYS—PHYSIOLOGICAL EFFECT)

LEVTOV, V.A.; MUSYASHCHIKOVA, S.S.

Relationship between local and general vascular reactions in connection with the intensity of the stimulation of the small intestine's chemoreceptors. Fiziol. zhur. 47 no.12:1477-1483 D '61.

(MIRA 15:1)

1. From the Laboratory of Circulation and Respiration I.P.Pavlov
Institute of Physiology, Leningrad.

(INTESTINES... INNERVATION) (NERVOUS SYSTEM, VASOMOTOR)

MUSYASHCHIKOVA, S.S.

Study of the peripheral nervous interactions of the vascular system in the small intestine. Biul. eksp. biol. i med. 52 no.9:18-23 S '61. (MIRA 15:6)

1. Iz laboratorii krovoobrashcheniya i dykhaniya (zav. - prof. G.P. Konradi) Instituta fiziologii imeni I.P. Pavlova (direktor - akademik K.M. Bykov), Leningrad. Predstavlena akademikom V.N. Chernigovskim.
(INTESTINES--BLOOD SUPPLY) (NERVES, PERIPHERAL)

MUSYASHCHIKOVA, S.S.

Characteristics of primary cortical reactions to the electrical
excitation of mesenteric nerves. Dokl. AN SSSR 148 no. 4: 979-
981 F '63. (MIRA 16:4)

1. Institut fizilogii im. I.P. Pavlova AN SSSR. Predstavleno
akademikom V.N. Chernigovskim.
(Electroencephalography) (Mesentery--Innervation)

MUSYASHCHIKOVA, S.S.

Bioelectrical reactions of the cerebral cortex in cats following stimulation of the afferent systems of internal organs. Fiziol. zhur. 50 no.1:32-40 Ja '64. (MIRA 18:1)

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.

ZARAYSKAYA, S.M.; MUSYASHCHIKOVA, S.S.; CHEPNIKOVSIIY, V.N.

Cortical representation of the afferent systems of the auditory tract. Zhur. vys. nerv. deiat. 15 no.2:405-413 Apr 1975.

'MIRA 18:5'

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni I.P. Pavlova AN SSSR, Leningrad.

BEYLER, N.N.; MUSYASHCHIKOVA, S.S.

Evoked potentials of the limbic cerebral cortex in cats following stimulation of mesenteric nerves. Fiziol. zhur. 51 no.8:918-925 Ag '65. (MIRA 18:7)

1. Laboratoriya obshchey fiziologii Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.

MUSYCHENKO, V.P.

27
 12032. DETERMINATION OF SULPHUR IN OILS BY THE LAMP METHOD. Musychenko, V.P., Tarasov, A.I., and Ogareva, N.V. (Moscow: Gostoptekhlizdat, 1955, Methods of Examining Petroleum and Petroleum Products, 275-281; abstr. in Ref. Zh. Khim. (Ref. J. Chem., Moscow), 1957, (12), 42344). The method was tested on lubricants, raffinates and deasphaltized residues, using 70-octane gasoline and industrial isooctane as diluent. Accuracy was tested on artificial mixtures of individual sulphur compounds. The lamp method gives more accurate results than combustion in a bomb, and takes 1/3 to 1/4 of the time. The ratio of solvent to sample is from 3 to 1 to 7 to 1.

4
 14E3d

11

NS

MUSYUK, B.

NOVAK, H., inzhener; ~~MUSYUK, B., inzhener.~~

Why wheat should be tempered before milling. Muk.-elev.prom. 20
no.6:15-18 Je '54. (MLRA 7:8)

1. Glavnoye upravleniye mukomol'noy krupyanoy, i kombikormovoy
promyshlennosti (for Novak). 2. Nikolayevskaya mel'nitsa No.6
Glavmuki (for Musyuk).
(Wheat milling)

Мусыкин, П.
MUSYUKIN, P.

Automobiles designed by the Ul'ianov Automobile Plant, Za pul.
no.6.11 Ja '57. (MLRA 10:7)

1. Glavnyy konstruktor Ul'yankovskogo avtozavoda.
(Automobiles)

POLAND

MUSZALSKA, Anna, mgr ins.; MARCISZEWSKI, Henryk, dr.

Analytical Dept., Pharmaceutical Institute (Zaklad Analityczny
Instytutu Farmaceutycznego), Warsaw (for both)

Warsaw, Chemia analityczna, No 3, May-June 1966, pp 585-588

"Determination of iso-butyric aldehyde in the presence of α,α -dimethyl- β -hydroxypropionic aldehyde."

MUSZALSKI, Zbigniew, mgr inż.

Some special problems in designing the set of electric machines for the steering gear telemotor in the light of model studies. Bud
okretowe Warszawa 8 no.3:91-95 Mr '63.

1. Katedra Maszyn Elektrycznych, Politechnika, Gdansk.

MUSZCZYNSKI, W.

POLAND/Chemical Technology. Chemical Products and Their Application.
Pesticides.

H-18

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15574.

Author : Eckstein Z., Muszcynski W., Sobotka W.

Inst :

Title : On the Preparation of Herbicides. II. Syntheses of 2,4,5-Trichloro-Phenoxyacetic Acid (2,4,5-T).

Orig Pub: Przem. chem., 1956, 12, No 3, 167-169.

Abstract: Two variants (A and B) are proposed for the synthesis of 2,4,5-trichloro-phenoxyacetic acid (I), which is a herbicide and a growth regulator for some vegetables. A. 2,5-dichloraniline (II) is converted by diazotization (action of solid NaNO_2 on sulphate of II at 0°), and subsequent decomposition with aqueous solution of H_2SO_4 during steam-distilling, to 2,5-dichlorophenol (III) (yield 86-91%). From III, by the method described in Communication I, is prepared

Card : 1/3

NAGY, Ervin, dr., okleveles kozgazda, foeloado; MUSZELY, Imre

Certain traffic problems of city transportation in Budapest. Kozl tud sz 14 no. 4:171-180 Ap '64.

1. Directorate of Transportation, Executive Commission of the City Council of Budapest (for Nagy).
2. Section chief, Motorbus Company of Budapest (for Muszely).

L 26653-66 EWT(m) DIAAP JD/JG

ACC NR: AP6017119

SOURCE CODE: UR/0048/65/029/012/2239/2242

AUTHOR: Gromov, K. Ya.; Zhelev, Zh.; Kun, Syan-Tsin; Musiol', G.; Khan', Shu-Zhun'

ORG: none

19
TITLE: Positron decay of Eu sup 147 [This paper was presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2239-2242

27
TOPIC TAGS: radioactive decay, positron, europium, nuclear spectroscopy, gadolinium, tantalum, synchrotron, proton, isotope, gamma spectrum, scintillator

19
ABSTRACT: The predicted Eu¹⁴⁷ → Sm¹⁴⁷ decay energy implies positron emission during decay. The purpose of this paper is to establish experimentally the Sm¹⁴⁷ level terminating the beta⁺ decay of Eu¹⁴⁷. The sample was obtained by repeated extraction of Eu from the Gd fraction from a tantalum target that had been irradiated with 660 Mev protons in the Dubna synchrotron and by repeated purification from gadolinium. The sample was stored for 2 months to rid it of Eu¹⁴⁹ and Eu¹⁴⁶.

27
A triple-coincidence scintillator was used to measure the coincidence of the 511-511 kev gamma quanta and the quanta of the entire gamma spectrum. The construction and operation of the scintillator is described in detail.

cont 1/2

L 26653-66

ACC NR: AP6017119

and its block diagram is shown. Two angular geometries for the orientation of the detector were used, and measurements made with these configurations are compared.

Peaks were found at 120 and 200. According to calculations, the intensities of the beta⁺ transitions to ground state, 121, and 198 keV were 0.15 ± 0.07 , 0.10 ± 0.03 , and 0.13 ± 0.04 respectively, per event. Results are compared in detail with those of other authors. The schematic of Eu^{147} to the 0, 121, and 198 levels of Sm^{147} is shown.

The authors thank Y. G. Kalinnikov and V. I. Nikitin respectively for valuable discussions and assistance in making the measurements. The authors give further thanks to E. A. Lebedev and Y. A. Khalkin for preparing the En. Orig. art. Has: 3 figures and 1 table. /JPS/

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 006

Card 2/2

MUSZKA, Daniel, tudományos munkatárs

Safety of motor vehicle transportation and automation. Magyar tud 68
no.11:669-673 N '61.

1. Magyar Tudományos Akadémia Matematikai Kutató Intézet, Budapest.

(Motor vehicles) (Automation)

MUSZKA, Daniel; KOVACS, Karoly

Designing of measuring bridges for the direct determination
of the total salt content of soil samples. *Meres automat*
10 no.11/12:367-368 '62.

1. Magyar Tudomanyos Akademia Matematikai Kutato Intezet
(for Muszka). 2. SZTE, Kiserleti Fizikai Intezet (for Kovacs).

MUSZKA, M

"Aviation in forest management." p. 33 (Technika Lotnicza, Vol. 9, No. 2, Mar./Apr.,
1954, Warszawa)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Uncl.

MUSZKALAY, L.

61. Determination of the hydraulic efficiency of settling tanks - L. Muszkalay, L. Varga. (Hidro-
logiai Közlemények, 1954, No. 11-12, pp. 161-
178, 22 figs., 1 tab.)

GP
D
No agreement has yet been reached in domestic and foreign literature on a standard method of hydraulic investigation of settling tanks and on the determination of the characteristics of efficient operation. The authors conducted experiments on models of horizontal flow settling tanks at the University of Building Sciences in Budapest. At the outset of the experiments attempts were made to interpret and calculate the hydraulic efficiency by applying the concept of the flow wave already employed abroad. The flow wave was experimentally determined by pouring a tracer solution (aqueous solution of a salt or dye) into the feed pipe of the settling tank for a short time and by plotting against time the change in the concentration of the tracer solution on the basis of samples taken from the discharge pipe of the basin. Since the experiments had shown that the wave pattern depended not only on the parameters of the flow taking place in the basin but also on the feed time as well, the authors also made a theoretical investigation of the rules governing the progress of the tracer solution. Theoretical considerations showed that there is a similitude between the curves of the flow wave and of the characteristics of the basin. From this follows that the tracer solution must be fed not only for a few seconds but for at least until the flow across the entire cross section, where the samples are taken, carries a uniform amount of

(OVER)

Muszkalay, L.

✓ 3641. Szilögyi, J., and Muszkalay, L., Effect of ice cover on river discharge (in Hungarian), Res. Inst. for Water Resources, Budapest, 1954 Report, 80-90, 1955.

Correction factor $\varphi = Q/Q_0$, used for determination of a winter discharge from the discharge curve for open channel, is studied as function of two arbitrary arguments: (1) a relative discharge $q = 100(Q - Q_{min}) / (Q_{max} - Q_{min})$, (2) a characteristic factor for every cross section $\alpha = h_m(A)^{1/2} / B v_m e_m$, where h_m is average depth, A area of cross section, B surface width, v_m average velocity in open channel, undisturbed by the ice cover, e_m average ice thickness. Values for α varied between 0.3 and 5.7 (in metric units). A diagram gives the values of φ as a function of q and α . Method can be applied for sections with insufficient observational data.

S. Kalupaila, USA

MUSZKALAY, LASZLO

Hungary /Chemical Technology. Chemical Products
and Their Application
Water treatment. Sewage water.

H-2

Abs Jour: Referat Zhur - Khimiya, No 1, 1958, 1691

Author : Muszkalay Laszlo, Vagas Istvan

Title : Study of the Movement of Liquid in a Single Tier
Settling Tank

Orig Pub: Hidrol. kozl., 1956, 36, No 5-6, 374-384

Abstract: Model studies were made of the effect of the design of the water distributing devices, on the operation of a horizontal settling tank. The coefficient of utilization of the holding capacity of the tank was found to be as follows: 0.246 on weir-distribution of the water; 0.414-0.432 on a distribution of the water by means of perforated partitions; 0.850 on distribution of the water

Card 1/2

MISZKALAY, L.

Comparative testing of revolving current meters. p. 66.

BESZAMOLO. Budapest, Hungary. 1957 (published 1959).

Monthly List of East European Accessions, (EFAI) LC, Vol. 9, No. 1, Jan. 1960.

Uncl.

MUSZKALAY, Laszlo, mernok, tudományos munkatárs

The effect of a pumping station on the flow conditions of a river.
Vizügyi közl no.3:350-357 '61.

1. Vizgazdalkodási Tudományos Kutató Intézet.

MUSZKALAY, Laszlo

Tidal power plants and the application of tubular turbines in
France. Vizugyi kozl no.1:85-92 :63.

MUSZKALAY, Laszlo

Validity of the calibration of flowmeters. Vizugyi kozl
no. 1:106-112 '59.

MUSZKALAY, Laszlo

Sedimentation of granular substances. Vizugyi kozl no.4:
519-522 '58.

MUSZKALAY, Laszlo; VAGAS, Istvan

Infiltration tests in one-story sedimentation basins. Hidrológiai közlöny 36 no.5:374-384 0'56.

1. Építőipari és Kozlekedési Műszaki Egyetem 1. sz. Vizepitestani Tanszéke.

HANKO, Zoltan; VAGAS, Istvan; PERENYI, Karoly; MUSZKALAY, Laszlo

Society and technical news. Hidrologiai közlony 43 no.1:6, 18, 30, 38, 76, 81 F '63.

1. "Hidrologiai Közlony" revatvezetoje (for Vagas).

MUSZKALAY, Laszlo; STARSOLSKY, Chon

Movements on Lake Balaton caused by wind. Hydrologiai Közlem.
44 no.8:337-344. Aug 1964.

1. Scientific Research Institute of Water Resources Development,
Budapest.

KRANICZ, Laszlo; MISZALAY, Laszlo; STAROSZKY, Odon

New instruments for local hydraulic tests. Hidrológiai
közlemények 44 no. 2:73-79 F '64.

1. Scientific Research Institute of Water Resources
Development, Budapest.

1ST AND 2ND COLUMNS										3RD AND 4TH COLUMNS									
PROCESSES AND PROPERTIES INDEX																			
BC B-T-2 Synthesis of liquid hydrocarbons from water-gas: R. H. Heston (Plenum Chem., 1964, 20, 455-459).—The most active catalyst, consisting of 6:1 Ni-Mo, loses 80% of its activity after 50 hr., while 9:1 Ni-Mo, 10:1 Ni-Mo, and 10:1 Ni-Mo are practically inactive from the beginning. Choice of the catalyst depends on the reaction conditions. Catalysts prepared from nickel and molybdenum are instantly deactivated by S₂ in the reaction mixture. R. T.																			
ASD-51A METALLURGICAL LITERATURE CLASSIFICATION																			
SOURCE SYMBOLS										FROM SOURCE									
SYMBOLS										SYMBOLS									

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21

Some Polish gasification coals. Jozef Dubois and
Kazimierz Musket. Gas i Woda 15, 161-73(1935).—

Analytical data are given of 9 samples of coal of different
origins. 1. Wiertelak

MUSZKAT, K

21

Production of free-sulfur from hydrogen sulfide-absorb-
ing materials in the Warsaw gas works. K. Muskat.
Gos. i Woda 17, 235-8(1937). - A review of the present
methods used to obtain free S by extg. with liquids. The
method used at the Warsaw Gas Works for extg. with
tri-chloroethylene yields S contg. 5-6% tar. This is recti-
fied (method not published) to give pure S at a cost of 0.1
cent/kg. At present the method is being worked out for
tech. production. Frank Gouet

MUSZKAT, K

POLAND/Chemical Technology. Chemical Products and Their
Application. Part 4. - Dyeing and Chemical
Treatment of Textile Materials.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72712.

Author : Kazimierz Muszkat.

Inst :

Title : Study of Chromation Process of Mordant Dyes on
Wool Fibers. I.

Orig Pub: Przem. włókienniczy, 1957, 11, No 10, 504-507.

Abstract: The study of various properties of dyes of the Acid
Chrome Blue-Black type, which is a Zn containing
complex of the o,o'-dioxyazo dye, showed that, with-
out any regard to the acid nature (H_2SO_4 , $HCOOH$ and
 CH_3COOH), dyeing proceeded normally and at the

Card : 1/3

POLAND/Chemical Technology. Chemical Products and Their
Application. Part 4. - Dyeing and Chemical
Treatment of Textile Materials.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72712.

H

approximately same rate, that the freshly prepared
solutions of dyes followed Beer's law and could
be photometered, but that solutions, which had been
in contact with wool (dye baths), changed their
shade depending on pH, and that the complex was not
stable, the amount of Zn absorbed by wool depending
on pH. Based on the property study, a determination
of the content of non-chromated dye on the dyed wool
was carried out; for that purpose, dyed wool was
treated with aqueous-butanol solution (1 to 2 g of
wool dyed with 4% of a dye was extracted by the
mixture of 20 ml of water and 5 ml of n-butanol with
1 ml of aqueous solution of 17 mg of NH_3 and 18 mg

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POLAND/Chemical Technology. Chemical Products and Their
Application, Part 4. - Dyeing and Chemical
Treatment of Textile Materials.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72712.

of $ZnSO_4$ in the duration of 30 min. at the temperature close to the boiling point). In view of the fact that some chromated dye is extracted besides the non-chromated, they are separated chromatographically, after which they are photometered in order to determine the amount of non-chromated dye. The amount of chromated dye is determined by the difference.

Card : 3/3

H-35

Country : Poland
 Category : Chemical Technology. Chemical Products and Their Applications. -- Dyeing & Chem. Treatment of Text.
 Abs. Jour R. Zh. - Khim., No. 11, 1959 Materials. 41055

Author : Muszkat, K.
 Institut. : Not given
 Title : Investigation of the Chroming of Mordant Dyes on Wool Fibers. II.

Orig Pub. : Przemysl Wlokienniczy, 11, No 12, 605-608 (1957)

Abstract : The experimental investigation of the individual parameters of the afterchroming process has shown that the minimum quantity of $K_2Cr_2O_7$ (I) required is not linearly related to the degree of coloring. At 0.5-4% coloring, 0.48% I (based on the weight of the wool) is sufficient: the 50% dosage used in practice (based on the weight of the dyeing agent) is correct only for 1% coloring. The chroming process at first proceeds rapidly (at 70-90° the amount of unchromed dye (AUD) remaining after the first 10 min drops from 100% to 5%) and then tapers off, terminating after 45 min. The dye losses during chroming, caused by oxidation of

Card: 1/3